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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,916	05/01/2006	Ryoji Funahashi	062440 6898	
	7590 04/13/200 I, HATTORI, DANIEL	EXAMINER		
1250 CONNEC	TICUT AVENUE, NV	TAI, XIUYU		
SUITE 700 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			04/13/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	on No.	Applicant(s)				
		10/577,9	6	FUNAHASHI, RYOJI				
		Examiner		Art Unit				
		Xiuyu Tai		1795				
The MAILING D Period for Reply	ATE of this communica	tion appears on the	cover sheet with the	correspondence ad	ddress			
WHICHEVER IS LON - Extensions of time may be a after SIX (6) MONTHS from - If NO period for reply is spec - Failure to reply within the set	FUTORY PERIOD FOR GER, FROM THE MAIL vailable under the provisions of 3 the mailing date of this communic iffed above, the maximum statute or extended period for reply will, fice later than three months after ent. See 37 CFR 1.704(b).	LING DATE OF TH 7 CFR 1.136(a). In no ever cation. Dry period will apply and wi by statute, cause the app	IIS COMMUNICATIO ent, however, may a reply be ti Il expire SIX (6) MONTHS from ication to become ABANDONE	N. mely filed the mailing date of this of ED (35 U.S.C. § 133).				
Status								
1) Responsive to c	ommunication(s) filed o	on 27 February 20i	19					
	Responsive to communication(s) filed on <u>27 February 2009</u> . This action is FINAL . 2b) This action is non-final.							
<u>′</u>	,			osecution as to the	e merits is			
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	idilee martile praeties	andor Exparto Qu	ay, 0, 1000 0. D . 11, 1	00 0.0.210.				
Disposition of Claims								
<i>'</i> —	Claim(s) <u>1-6</u> is/are pending in the application.							
4a) Of the above	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)☐ Claim(s)	Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-6</u> is/a	☑ Claim(s) <u>1-6</u> is/are rejected.							
7) Claim(s)	is/are objected to.							
8) Claim(s)	are subject to restriction	n and/or election r	equirement.					
Application Papers								
9)☐ The specification	is objected to by the E	xaminer.						
•	•		objected to by the	Examiner.				
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
· · · · · · · · · · · · · · · · · · ·					FR 1.121(d).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C.	§ 119							
<u>-</u>		foreign priority und	der 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Son	!) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1.☐ Certified o	copies of the priority do	cuments have bee	n received.					
	<u> </u>							
	the certified copies of t				l Stage			
	n from the International	•			- 3			
* See the attached detailed Office action for a list of the certified copies not received.								
			•					
Attachment(s)				(DTO 110)				
 Notice of References Cite Notice of Draftsperson's F 	d (PTO-892) Patent Drawing Review (PTO-	-948)	4) Interview Summary Paper No(s)/Mail D					
3) Information Disclosure Sta		0.10)	5) Notice of Informal I					
Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/27/2009 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection necessitated by applicant's amendments.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 4. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Blasco et al ("Magnetic properties and structure of LaNi_{3/4}Mn_{1/4}O₃", *J. Phys.: Condens. Matter*, 13 No. 30, 2001, 729-736).
- 5. Regarding claims 1, Blasco et al disclose a perovskite material having composition represented by LaNi_{3/4}Mn_{1/4}O₃ (ABSTRACT), which satisfies the formula cited in the claim. The reference of Chiba is silent about whether this composite oxide

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has a negative Seebeck coefficient at 100C or higher. However, since the composition of Chiba meets the formula cited in the claim, it is inherent to have the same properties as the claimed oxide, particularly the Seebeck coefficient.

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- 6. Regarding claims 2, Blasco et al disclose a perovskite material having composition represented by LaNi_{3/4}Mn_{1/4}O₃ (ABSTRACT), which satisfies the formula cited in the claim. The reference of Chiba is silent about whether this composite oxide has an electrical resistivity of 10 or less at 100C or higher. However, since the composition of Chiba meets the formula cited in the claim, it is inherent to have the same properties as the claimed oxide, particularly the electrical resistivity.
- 7. Regarding claims 3 and 4, Blasco does not indicate whether the composition is an n-type thermoelectric material. However, since the composition of Blasco meets the formula cited in the claim, it is fully capable of functioning as an n-type thermoelectric material.
- 8. Regarding claims 5 and 6, since the component of the cited thermoelectric module is the n-type material comprising the claimed oxide, the composition represented by LaNi_{3/4}Mn_{1/4}O₃ as disclosed by Blasco meet the formula cited in the claim. Therefore, LaNi_{3/4}Mn_{1/4}O₃ of Blasco reads on the instant thermoelectric module.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xiuyu Tai whose telephone number is 571-270-1855. The examiner can normally be reached on Monday - Friday, 7:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexa Neckel can be reached on 571-272-1446. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/X. T./ Examiner, Art Unit 1795 3/24/2009

/Alexa D. Neckel/

Supervisory Patent Examiner, Art Unit 1795